- (Amended) An isolated polynucleotide molecule encoding a polypeptide molecule, wherein the polypeptide molecule comprises residues 437 to 450 of SEO ID NO:2.
- 11. (Amended) An isolated polynucleotide molecule encoding a polypeptide molecule, wherein the polypeptide molecule comprises residues 164 to 382 of SEQ ID NO:2.

- 12. (Amended) An isolated polynucleotide molecule encoding a polypeptide molecule, wherein the polypeptide molecule comprises residues 383 to 464 of SEQ ID NO:2.
- 13. (Amended) An isolated polynucleotide molecule encoding a polypeptide molecule, wherein the polypeptide molecule comprises residues 465 to 696 of SEQ ID NO:2.
- 15. (Amended) An isolated polynucleotide encoding a fusion protein having a first segment and a second segment, wherein the first segment comprises a polypeptide having a protease domain and the second segment comprises a polypeptide that has a contiguous sequence of 13 amino acids between residues 383 and 464 of SEQ wherein the first segment is positioned amino-terminally to the second segment, and wherein the protein binds an integrin.
- 18. (Amended) The isolated polynucleotide molecule according to claim 12, wherein the polypeptide molecule comprises residues 383 to 696 of SEQ ID NO:2.
- 19. (Amended) The isolated polynucleotide molecule according to claim 18, wherein the polypeptide molecule comprises residues 1 to 696 of SEQ ID NO:2.
- 20. (Amended) An expression vector comprising the following operably linked elements:
 - a transcription promoter; a)
- a DNA segment comprising the polynucleotide according to claim b) 12: and
 - a transcription terminator. c)

١. ﴿

in the real part of the

- 21. (Amended) The expression vector of claim 20 wherein the DNA segment further encodes an affinity tag.
- 22. (Amended) A cultured cell into which has been introduced the expression vector according to claim 20, wherein said cell expresses the polypeptide encoded by the DNA segment.
- 23. (Amended) A method of producing a polypeptide comprising culturing the cell according to claim 22, whereby said cell expresses the polypeptide encoded by the DNA segment; and recovering the polypeptide.

Please add claims 28-41 as follows:

- 28. (New) The polypeptide produced by the method according to claim 23.
- 29. (New) An isolated polynucleotide encoding a polypeptide, the amino acid sequence of which comprises residues 438 to 449 as shown in SEQ ID NO:2, wherein the polypeptide binds an integrin.
- 30. (New) An isolated polynucleotide encoding a polypeptide, the amino acid sequence of which consists of residues 438 to 449 as shown in SEQ ID NO:2.
- 31. (New) An isolated polynucleotide encoding a polypeptide, the amino acid sequence of which consists of residues 437 to 450 as shown in SEQ ID NO:2.
- 32. (New) An isolated polynucleotide encoding an immunogenic polypeptide, the amino acid sequence of which comprises 13 consecutive amino acids as shown in SEQ ID NO:2.
- 33. (New) The isolated polynucleotide encoding an immunogenic polypeptide according to claim 32, wherein the amino acid sequence comprises 14 consecutive amino acids as shown in SEQ ID NO:2.

- 34. (New) An isolated polynucleotide encoding a polypeptide, the amino acid sequence of which has at least 90% identity to the amino acid sequence as shown in SEQ ID NO:2 from residue 383 to residue 464, and wherein the polypeptide binds an integrin.
- 35. (New) An isolated polynucleotide encoding a polypeptide, the amino acid sequence of which has at least 90% identity to the amino acid sequence as shown in SEQ ID NO:2 from residue 164 to residue 464 wherein the polypeptide binds an integrin.
- 36. (New) An isolated polynucleotide encoding a polypeptide wherein the amino acid sequence of the polypeptide is residues 164 to 464 of SEQ ID NO:2.
- 37. (New) An isolated polynucleotide encoding a polypeptide, the amino acid of which has at least 90% identity to the amino acid sequence as shown in SEQ ID NO:2 from residue 164 to residue 696 wherein the polypeptide binds an integrin.
- 38. (New) The isolated polynucleotide according to claim 37, wherein the amino acid sequence of the polypeptide is residues 164 to 696 of SEQ ID NO:2.
- 39. (New) An isolated polynucleotide encoding a polypeptide, the amino acid of which has at least 90% identity to the amino acid sequence as shown in SEQ ID NO:2 from residue 383 to residue 696, wherein the polypeptide binds an integrin.
- 40. (New) An isolated polynucleotide encoding a polypeptide, the amino acid sequence of which has at least 90% identity to the amino acid sequence as shown in SEQ ID NO:2 from residue 1 to residue 696 wherein the polypeptide binds an integrin.
 - 41. (New) A polynucleotide selected from the group consisting of:
 - a) the polynucleotide as shown in SEQ ID NO:1; and
 - b) a polynucleotide that is complementary to a).

A5 and.